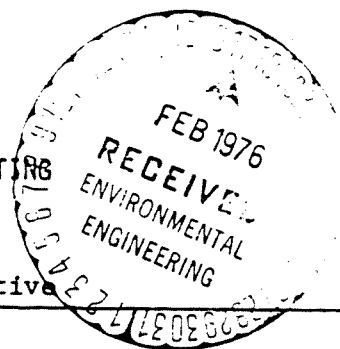




NORTH DAKOTA STATE DEPARTMENT OF HEALTH
Air Pollution Control Program
State Capitol
Bismarck, North Dakota 58501

ANNUAL EMISSION INVENTORY REPORT
FORM AP 301
FUEL BURNING EQUIPMENT USED FOR INDIRECT HEATING
Calendar Year 1975



1. Name of Firm or Organization: Basin Electric Power Cooperative
2. Plant Location: Stanton, ND Mercer County
3. Permit to Operate Number: _____
4. Source Unit Number (from Permit to Operate): 2 (two)
5. Type and Quantity of Fuel Used:

	PRIMARY FUEL	STANDBY FUEL
	Type <u>Lignite</u> Quantity per year <u>238,726 TON</u> (Specify Units) Delivered Cost of fuel <u>\$3.67 per ton</u> (\$/Unit Quantity)	Type <u>#2 Fuel Oil</u> Quantity per year <u>2,299,045 gal.</u> (Specify Units) Delivered Cost of fuel <u>\$0.34 per gal.</u> (\$/Unit Quantity)
PERCENT ASH (Solid Fuel Only) Max. Min. Avg.	As Received 11.16 7.02 9.08	
PERCENT SULFUR Max. Min. Avg.	0.71 0.42 0.53	
BTU PER UNIT Max. Min. Avg.	6669 BTU/lb 6179 6426	140,000 BTU/gal

6. Monthly Fuel Use:

QUANTITY			QUANTITY		
MONTH	PRIMARY FUEL	STANDBY FUEL	MONTH	PRIMARY FUEL	STANDBY FUEL
	Type_____	Type_____		Type <u>Lignite</u>	Type <u>#2 Fuel Oil</u>
	Units_____	Units_____		Units <u>Tons</u>	Units <u>Gallons</u>
Jan.			July		
Feb.			Aug.		
March			Sept.	5794	600,709
April			Oct.	5479	231,304
May			Nov.	84,113	780,530
June			Dec.	143,340	686,502

7. Hourly Fuel Use:

	QUANTITY	
	PRIMARY FUEL	STANDBY FUEL
	Type <u>Lignite</u> Units <u>Tons</u>	Type <u>#2 Fuel Oil</u> Units <u>Gallons</u>
Maximum	340	2226
Average	203	1959

8. Normal Schedule of Operation:

Hours Per Day 24 Weeks Per Year 49

Days Per Week 7 Peak Season Base Load
(Specify Months of Year)

Total Hours Per Year 8232 (1173 in 1975)

POLLUTANT	QUANTITY POUNDS PER HOUR (AVERAGE)	TONS PER YEAR
Particulate	261	153
Sulfur Dioxide	4570	2680
Nitrogen Oxides	3450	2020
Other (Specify)		

Basis For Quantities Listed Above:

Particulate emissions were tested by Basin Electric on January 15, 1976.

Sulfur dioxide concentration is estimated equal to Leland Olds Unit #1.

Nitrogen oxides are estimated from EPA's "Supplement No. 5 for Compilation of Air Pollutant Emission Factors".

10. Name of Person Submitting Report (Print or Type) Kent E. Janssen

Title Manager of Production Phone 223-0441

I declare under the penalties of perjury that this report has been examined by me and to the best of my knowledge and belief is a true, correct, and complete report.

(Signed)

Kent E. Janssen Date 2/11/76